

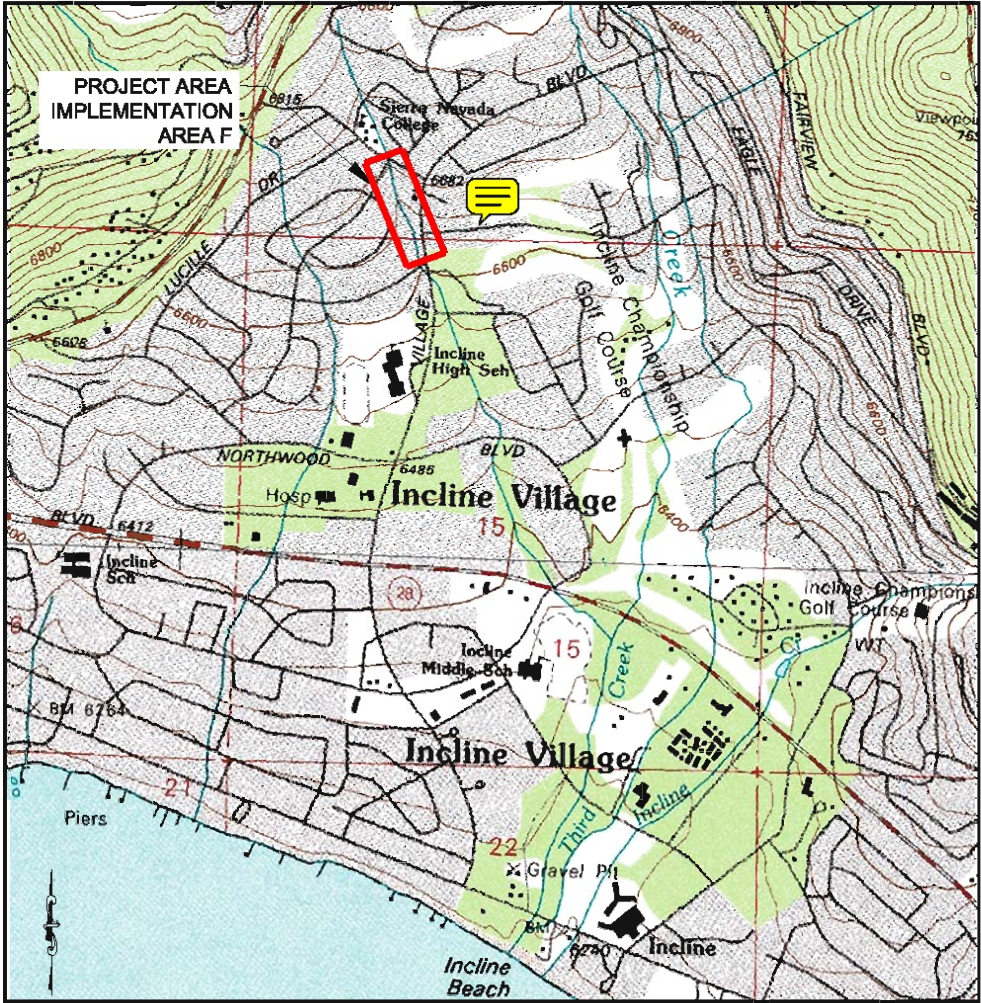
## **APPENDIX 2**

### **50% Design Plans**

NEVADA TAHOE CONSERVATION DISTRICT

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SHEET NO.	SHEET NAME	TITLE
1	Sheet T-1	TITLE SHEET
2	Sheet C-1	PLAN SHEET ROSEWOOD CREEK
3	Sheet C-2	PROFILE ROSEWOOD CREEK STA. 39+00 - 52+00
4	Sheet XS-1	CROSS SECTIONS
5	Sheet XS-2	CROSS SECTIONS
6	Sheet S-1	STAGING, STORAGE, ACCESS PLAN & TEMPORARY EROSION CONTROL
7	Sheet TC-1	TEMPORARY TRAFFIC CONTROL
8	Sheet D-1	DETAILS
9	Sheet D-2	DETAILS
10	Sheet D-3	DETAILS
11	Sheet R-1	REVEGETATION

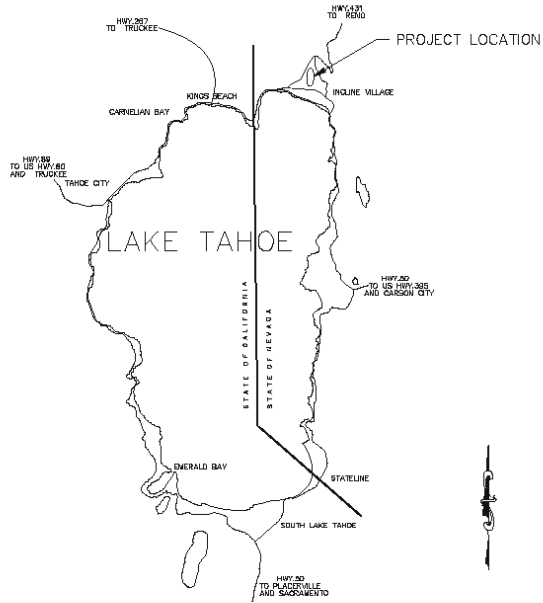
MIDDLE ROSEWOOD CREEK  
SEZ RESTORATION – AREA F  
IN THE COUNTY OF WASHOE



PROJECT AREA MAP

INCLINE VILLAGE  
SCALE 1"=300'

50% DESIGN  
APRIL 2007



VICINITY MAP

COUNTY OF WASHOE

ENGINEER:

ENGINEER: STEPHEN H. PECK, P.E.  
REGISTERED CIVIL ENGINEER  
STATE OF NEVADA, NO. 16993

DATE

REVISIONS			
MARK	DATE	BY	

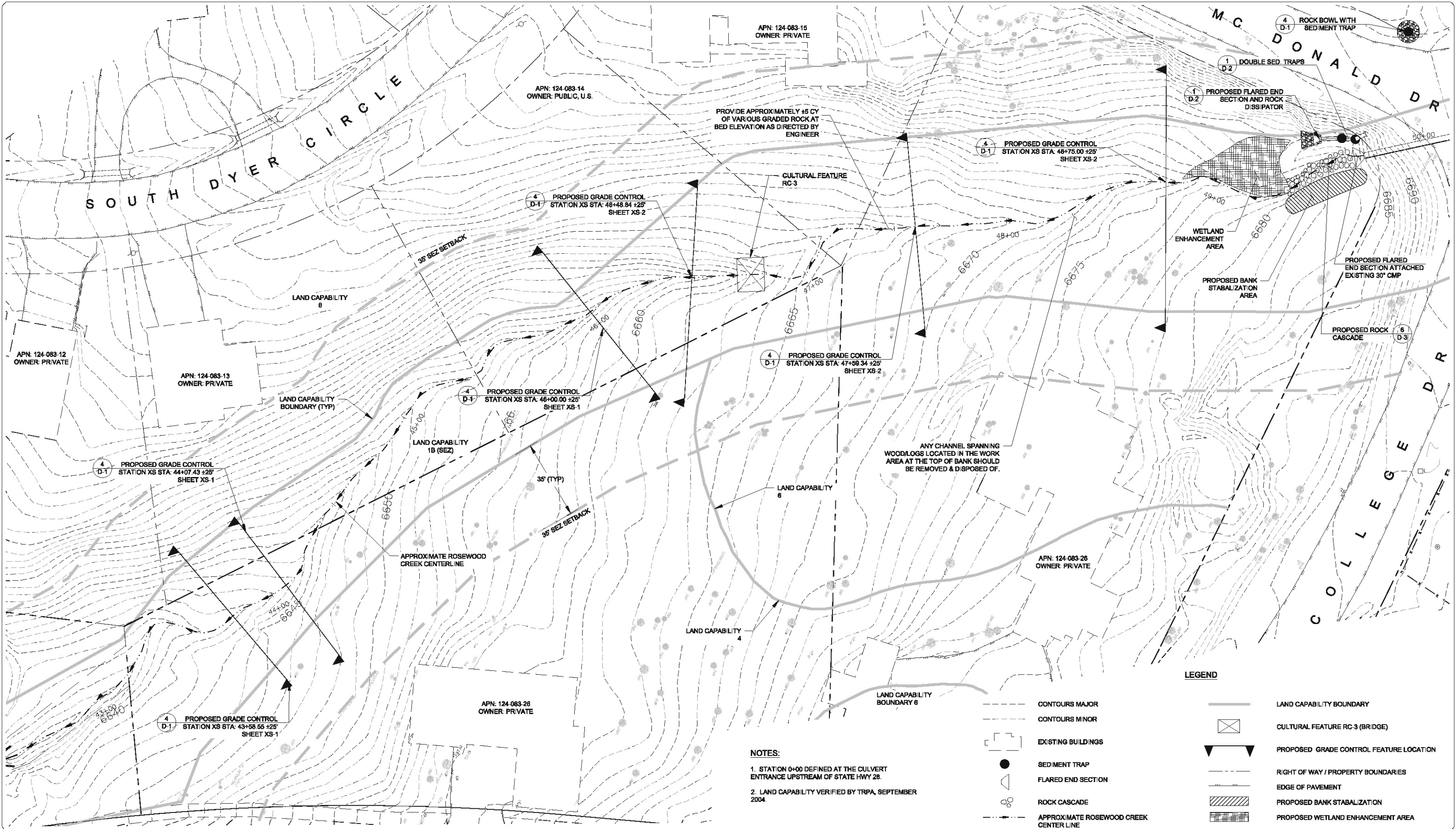


MIDDLE ROSEWOOD CREEK SEZ  
RESTORATION  
50% DESIGN PLANS  
PLAN - STATION 43+00 THRU 50+00

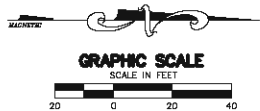
Sheet  
T-1

DATE  
April,  
2007





REVISIONS		
MARK	DATE	BY



**MIDDLE ROSEWOOD CREEK SEZ RESTORATION**  
50% DESIGN PLANS  
**PLAN - STATION 43+00 THRU 50+00**

**Sheet C-1**  
DATE April, 2007





Materials Seed Mix

Common Name	Scientific Name	#'s PLS/AC		Native/ Introduced
		Large Seed	Small Seed	
Blue wildrye	<i>Elymus glaucus</i>		3.0	N
Streambank wheatgrass	<i>Elymus lanceolatus</i> ssp. <i>riparium</i> 'Sodar'		4.0	N
Pubescent wheatgrass	<i>Elytrigia intermedia</i> ssp. <i>trichophorum</i>		3.0	I
Letterman needlegrass	<i>Stipa lettermanii</i>		1.0	N
Rocky Mtn. penstemon	<i>Penstemon strictus</i> 'Bandera'		1.5	N
White yarrow	<i>Achillea millefolium</i>		0.3	N
Antelope bitterbrush	<i>Purshia tridentata</i>	3		N
Mountain big sagebrush	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>		0.3	N
Wood's rose	<i>Rosa woodsii</i>	2		N
	Subtotal	5.0	13.0	
	Total Pounds of Pure Live Seed	18.0		

\*LARGE AND SMALL SEED SHOULD BE SEEDED AS TWO SEPARATE SEED MIXES

**LEGEND**

- REVEGETATION TYPE A
- STAGING & STORAGE AREA
- CONSTRUCTION ENTRANCE (TYP)

**General Notes**

Care shall be taken at all times to protect and prevent any disturbance to existing vegetation. Any disturbances caused by the Contractor and occurring to existing vegetation and/or areas outside the identified work areas as defined on the Plans shall be repaired at the Contractor's expense and as directed by the Engineer.

Areas to receive revegetation treatments shall include all areas disturbed during construction and areas indicated on the plans. The revegetation work shall consist of all site preparation associated with revegetation treatments, and shall include seed bed preparation, soil amendment application, seeding, and the application of mulch and tackifier.

Submit to the Engineer within twenty (20) days following the award of Contract proof that orders for all materials have been received and accepted by the supplier(s). Statement shall include estimated date(s) for delivery. Submit seed labels a minimum of 20 working days prior to seed application for approval and acceptance. Labels shall show seed vendor's certification for required seed mixtures, indicating percentage by weight, and percentages of purity, germination and weed seed for each species.

The Contractor shall notify the Engineer no less than 72 hours in advance of revegetation work and shall not begin work until prepared treatment areas have been approved by the Engineer. The treatment type and boundaries shall be approved by the Engineer prior to commencement of the work.

For one full growing season after planting, Contractor shall guarantee 70% coverage by seeded species and mulch in upland areas such that there is no evidence of rills, gullies or other evidence of erosion. If adequate coverage is not achieved, the Contractor will be required to re-seed, re-amend the soil, and/or re-mulch the area. The Contractor shall contact the Engineer to make the final inspection and acceptance at the conclusion of the maintenance period, one full year following the completion of seeding. Provide notification at least 10 working days before the requested inspection date.

See Special Provisions for Materials Specifications.

**Revegetation Types**  
Type A

Revegetation Type A shall be applied to or on Construction Access, staging and storage areas and other miscellaneous upland areas indicated in the plans.

Scarify compacted soils to a depth of six (6) inches. Apply seed mix and incorporate; seed shall be uniformly broadcast with hand-held seeder or approved equal over prepared areas and lightly raked to a depth of ¼ to ½ inch. Seed must not be left uncovered more than 24 hours unless otherwise approved by the Engineer. All seeding shall occur in the fall, prior to snow accumulation, unless otherwise approved by the Engineer. Amendments shall be evenly applied according to the manufacturer's specifications following soil scarification and seeding.

Immediately upon completion of soil amendment application, a stabilizing emulsion that includes wood mulch shall be hydraulically applied at a rate of 2,000 pounds per acre. A hydroseeder with a paddle wheel agitator shall be used to evenly apply the mixture under suspension unless otherwise approved by the Engineer. Use a truck mounted Hydro-Seeder or approved equal.

**Soil Amendments**





All amendments shall conform with all rules and regulations governing the registration, licensing, and collection of license fees for commercial amendments in the State of Nevada Department of Food and Agriculture. Amendments shall be uniform in composition, dry and free flowing. Soil amendments shall include ingredients that will enhance the development of soil and shall not be confused with fertilizer. Acceptable amendments include 'Biosol' or an approved equal.

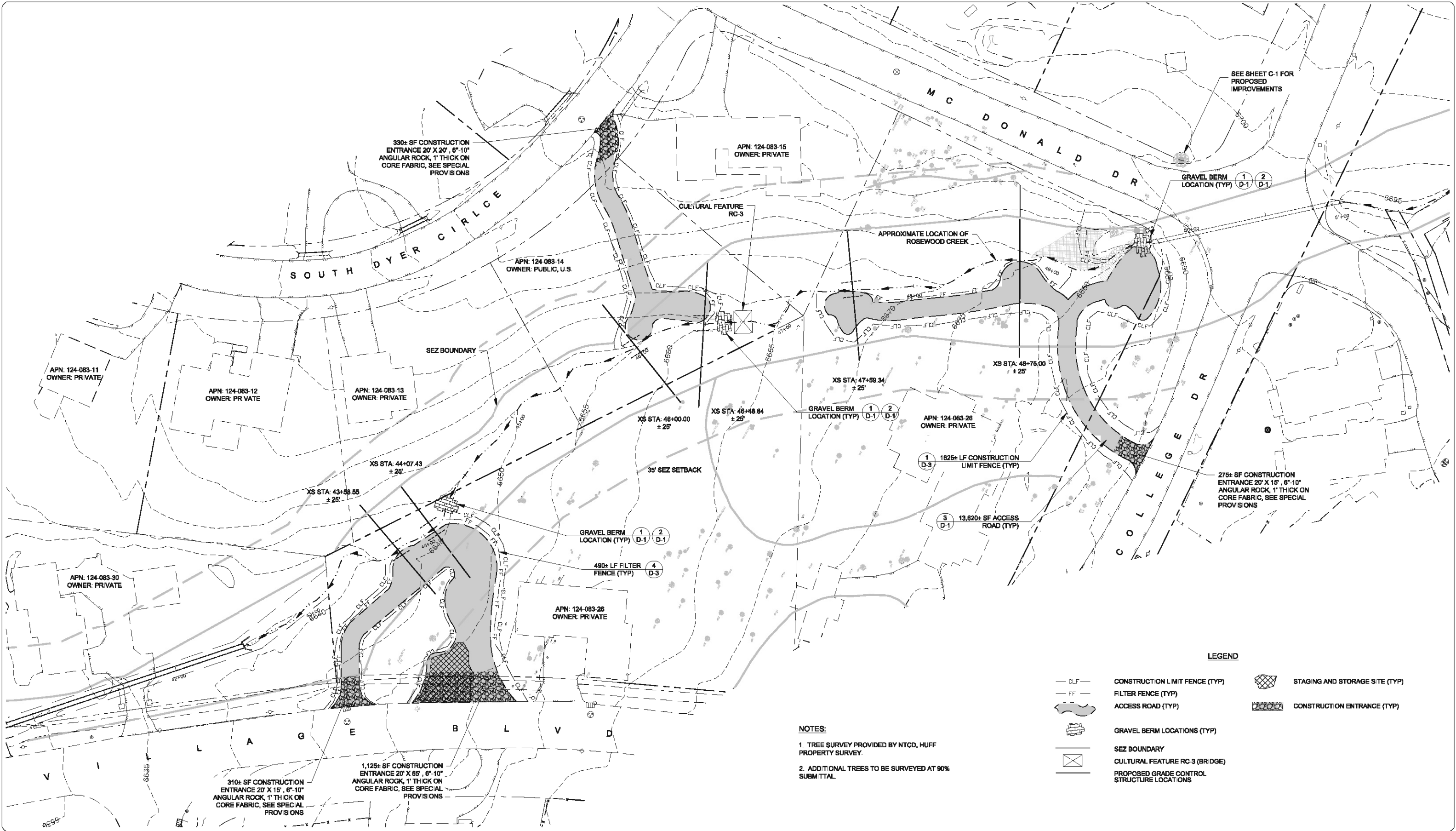
**Mulch**

Mulch shall consist of specially prepared wood fibers derived from whole wood chips. Wood fiber mulch shall contain with no growth or germination inhibiting factor substances (no weed seed), and shall be manufactured in such a manner that when thoroughly agitated in the hydraulic mulching unit with stabilizer (see tackifier listed in section 20-2.06) and water in the proportion specified, will form a homogenous slurry which is capable of being sprayed. The fibrous mulch in its air-dry state shall contain no more than 15% by weight water. The fiber shall have a temporary green dye and shall be accompanied by a certificate of compliance stating that the fiber conforms to these specifications. The Contractor shall submit a sample of the mulch a minimum of five (5) working days before scheduled application of the mulch.

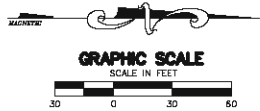
**Stabilizer/Tackifier**

The soil stabilizing emulsion shall be Atlas SolLok, a water-based polyvinyl acetate compound containing no polyacrylates or polyvinyl-acrylics, which bonds soil particles together to form a transparent, flexible, water-insoluble, porous lattice-like membrane structure within the upper-soil layer. Applied at a rate of 33 gallons/acre, Atlas SolLok is to be sprayed evenly over the soil surface which has been pre-wetted to a depth of no less than one (1") inch, after being diluted in water as a recommended 1:20 dilution rate.

REVISIONS								<b>MIDDLE ROSEWOOD CREEK SEZ RESTORATION</b> 50% DESIGN PLANS <b>REVEGETATION PLAN</b>	<b>Sheet R-1</b>
MARK	DATE	BY							DATE April, 2007



REVISIONS		
MARK	DATE	BY

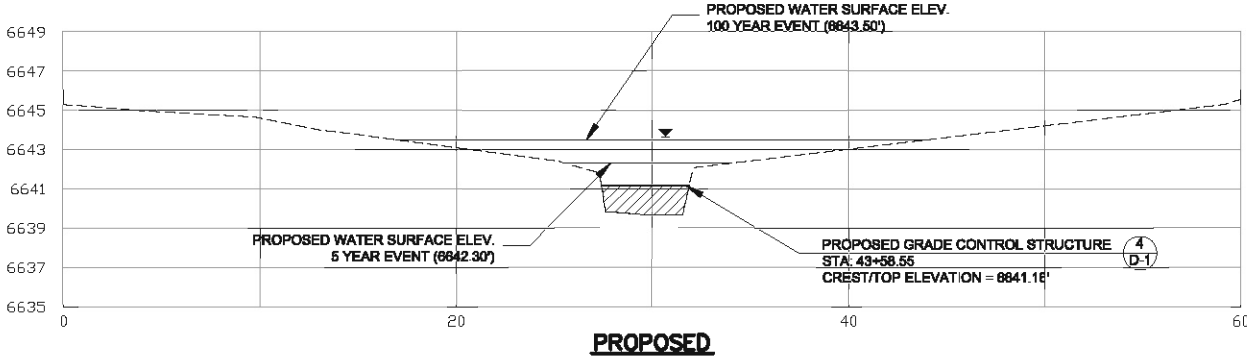
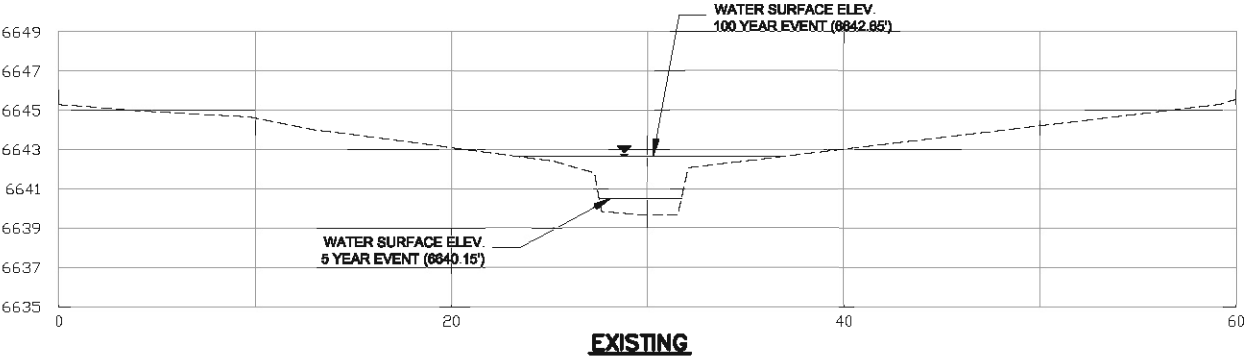


MIDDLE ROSEWOOD CREEK SEZ  
RESTORATION

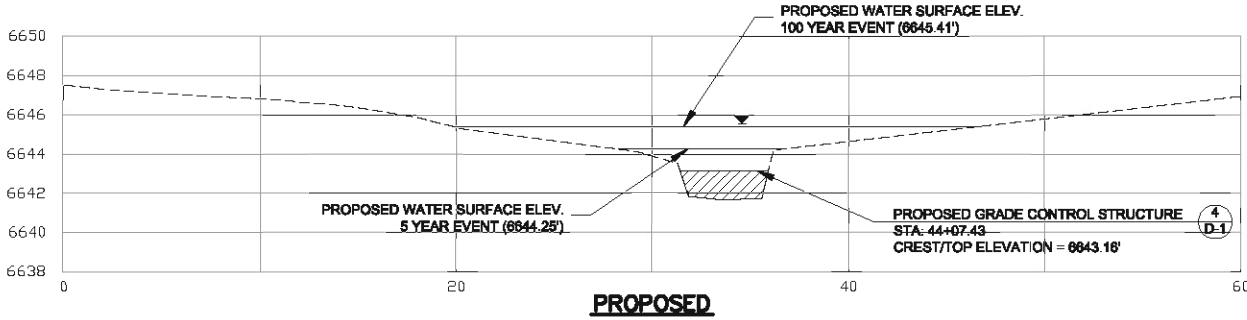
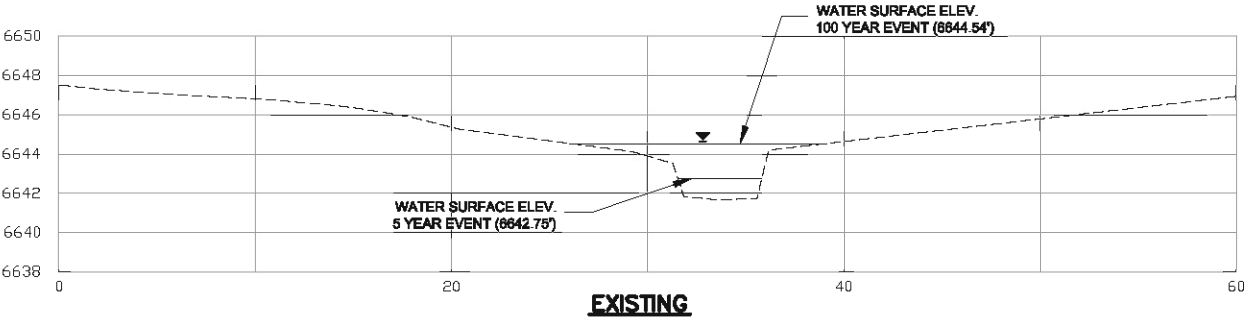
50% DESIGN PLANS  
STAGING, STORAGE & ACCESS

Sheet  
S-1

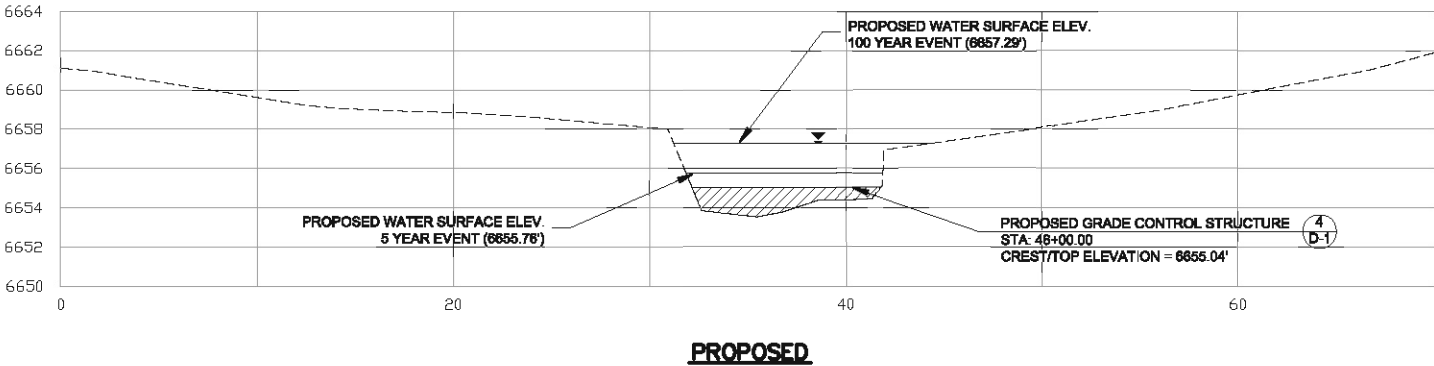
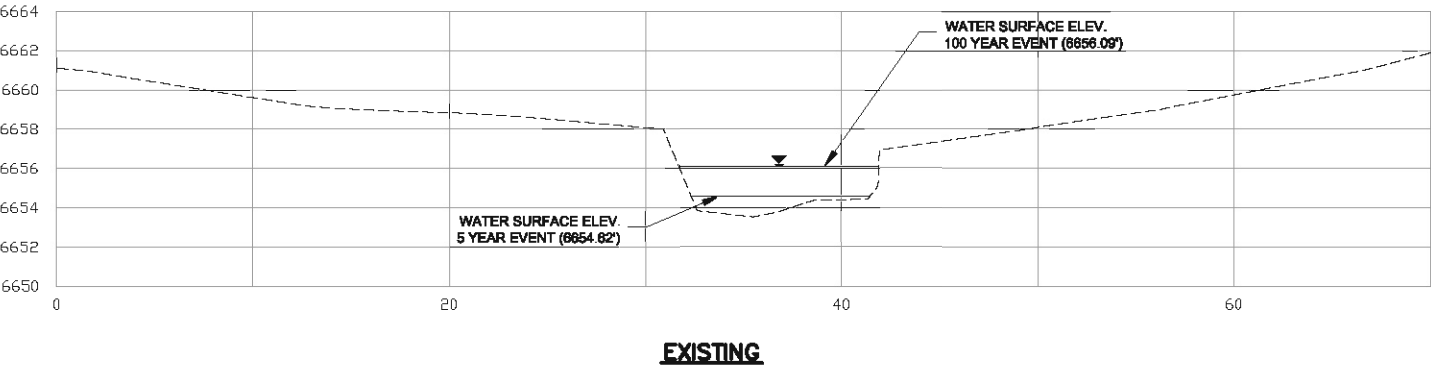
DATE  
April,  
2007



CROSS SECTION STA: 43+58.55



CROSS SECTION STA: 44+07.43



CROSS SECTION STA: 46+00.00

- NOTES:
- 1. CROSS SECTIONS WERE INTERPOLATED BASED ON AN AERIAL SURVEY, WRI FIELD SURVEY, AND FIELD VERIFICATION.
  - 2. ALL CROSS SECTIONS ARE TO BE FIELD SURVEYED AT 90%.

CROSS SECTIONS  
HORIZONTAL SCALE 1" = 5'  
VERTICAL SCALE 1" = 5'

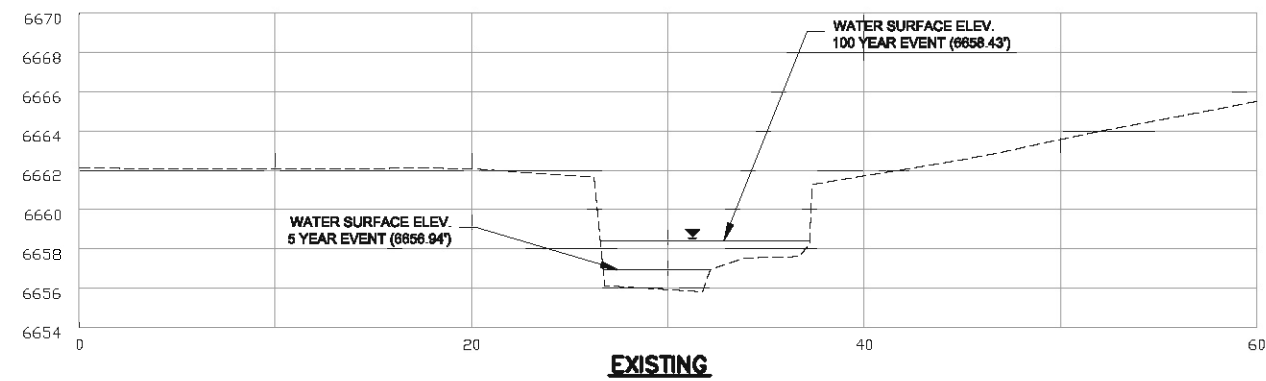
REVISIONS			
MARK	DATE	BY	



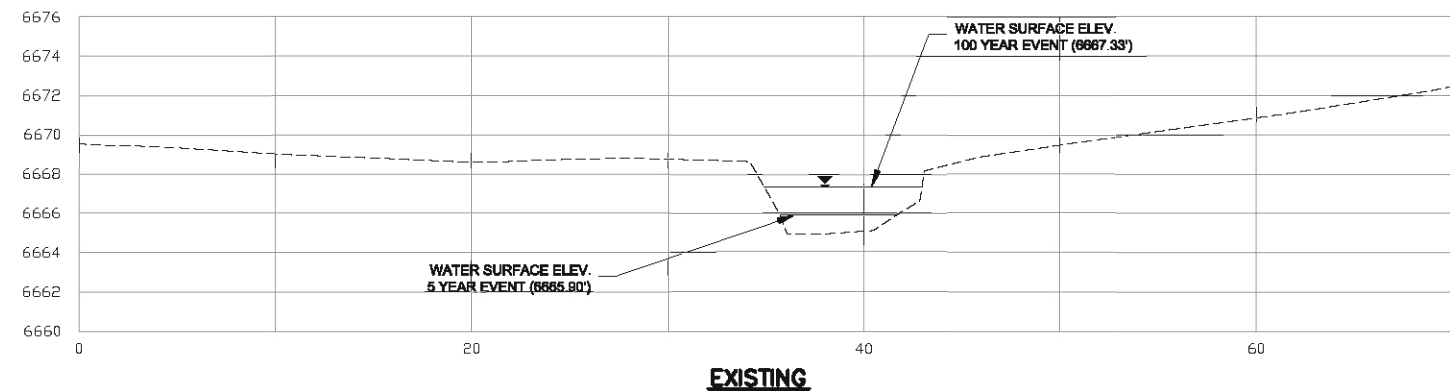
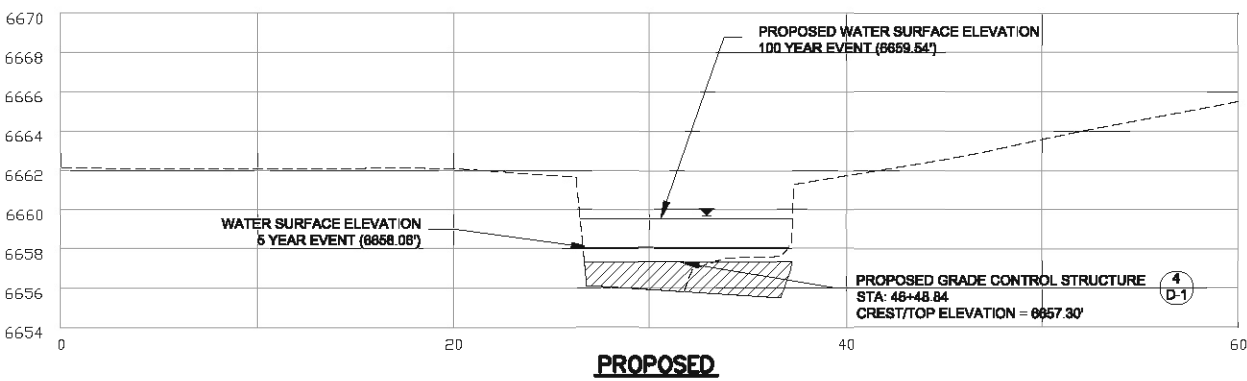
MIDDLE ROSEWOOD CREEK SEZ  
RESTORATION  
50% DESIGN PLANS  
CROSS SECTIONS

Sheet  
XS-1  
DATE  
April,  
2007

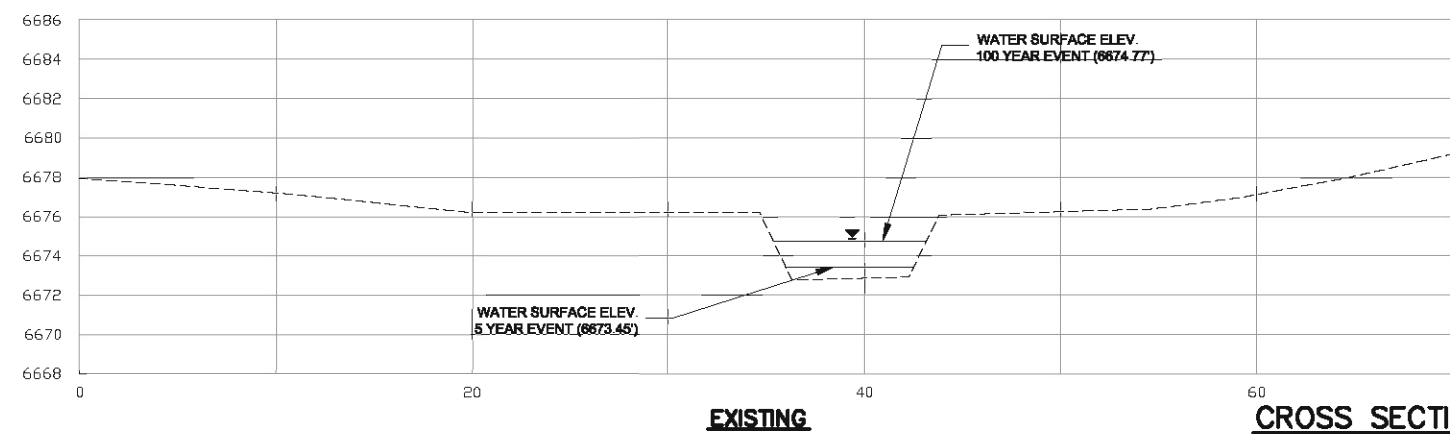
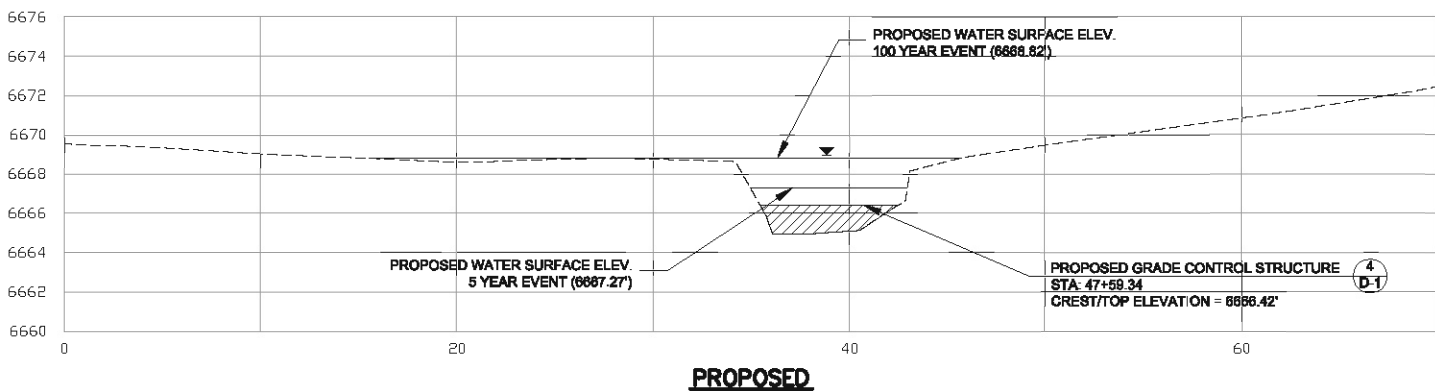




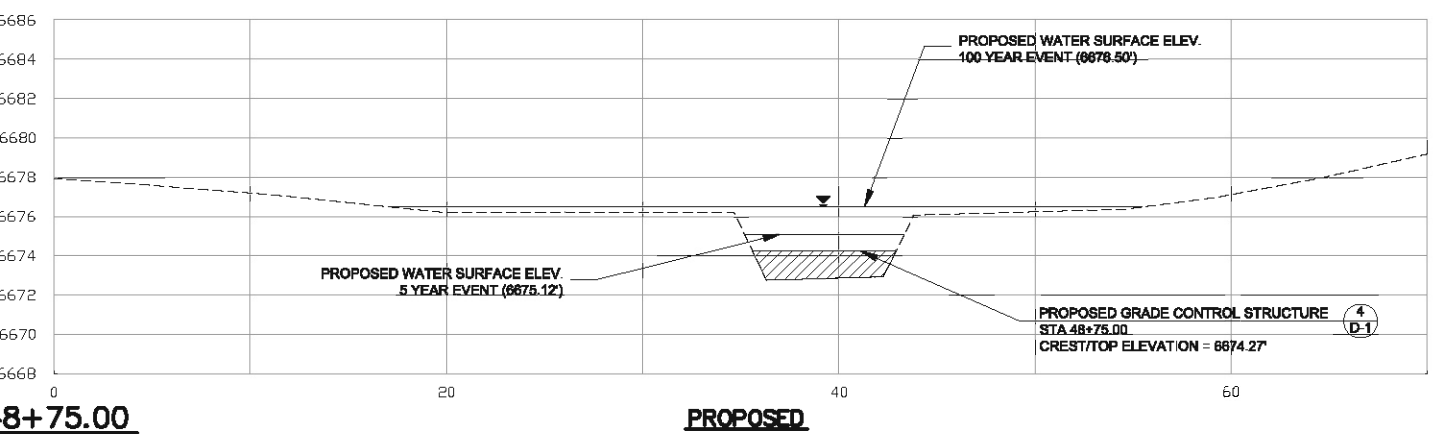
**CROSS SECTION STA: 46+48.84**



**CROSS SECTION STA: 47+59.34**



**CROSS SECTION STA: 48+75.00**

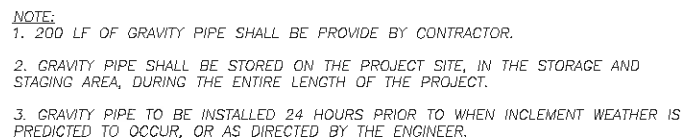


**NOTES:**

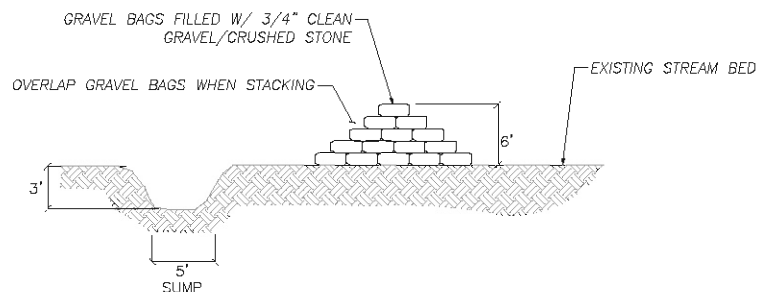
- 1. CROSS SECTIONS WERE INTERPOLATED BASED ON AN AERIAL SURVEY, WRI FIELD SURVEY, AND FIELD VERIFICATION.
- 2. ALL CROSS SECTIONS ARE TO BE FIELD SURVEYED AT 90%.

CROSS SECTIONS  
HORIZONTAL SCALE 1" = 5'  
VERTICAL SCALE 1" = 5'

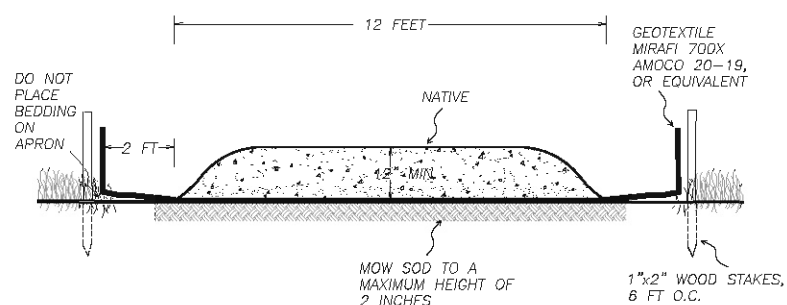




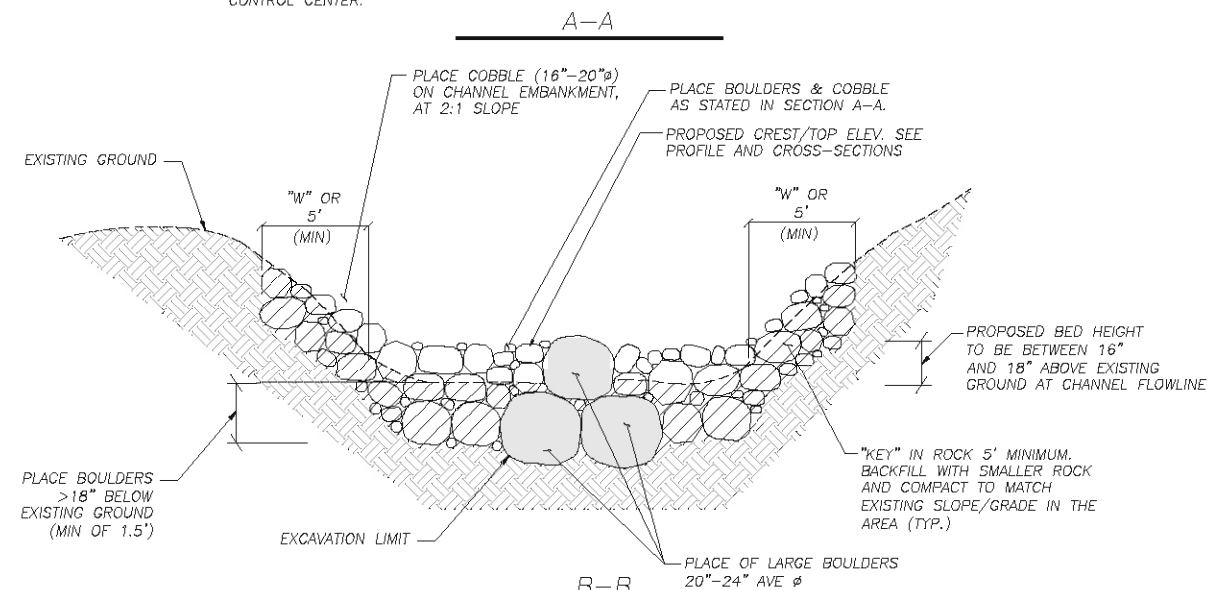
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## SCALE: N T S



SCALE: N.T.S.



## SCALE: N.T.



**Nevada Tahoe  
Conservation District**

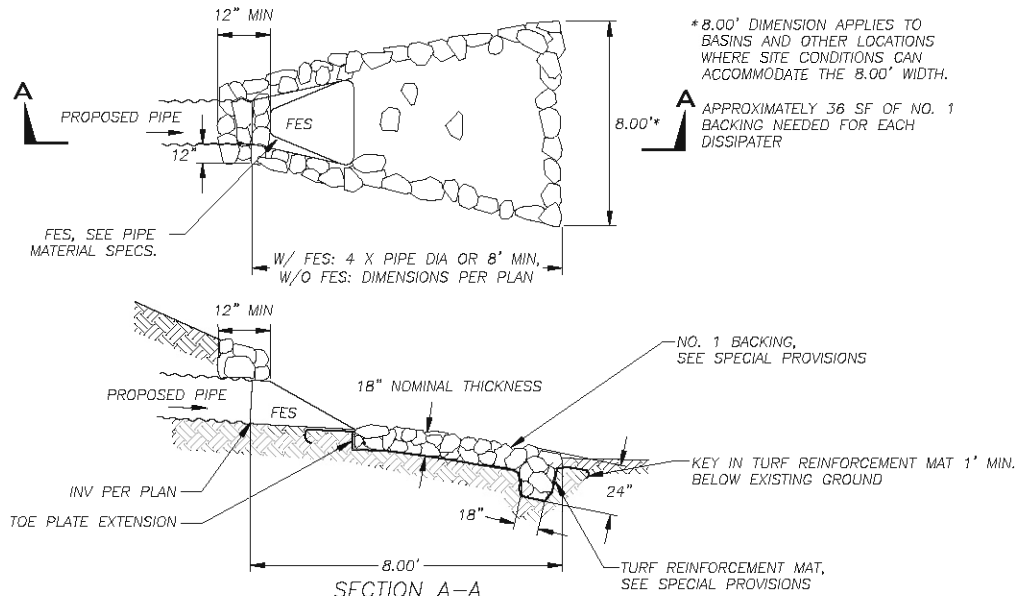


**MIDDLE ROSEWOOD CREEK SEZ**  
**RESTORATION**  
50% DESIGN PLANS  
**DETAILS SHEET**

**Sheet**  
**D-1**

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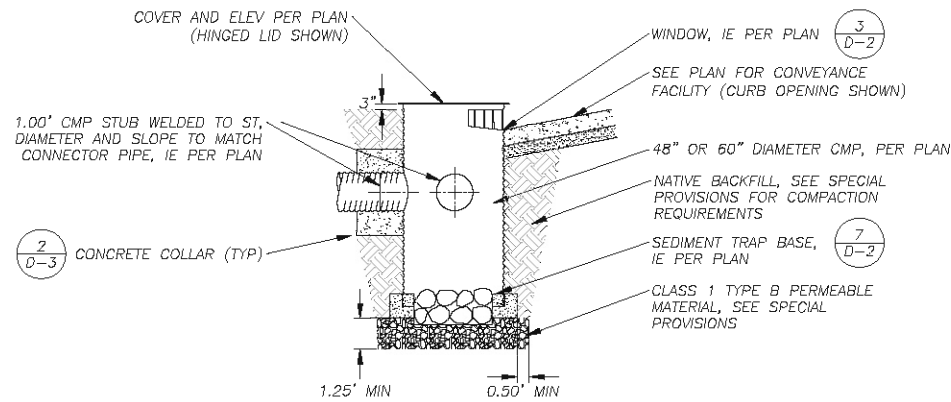
DATE  
April,  
2007



- NOTES:
1. ALL FES SHALL BE SHOWN ON THE PLANS.
  2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.

### FLARED END SECTION AND ROCK DISSIPATOR 1

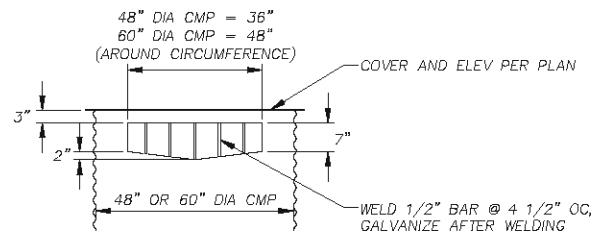
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NOTE: SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.

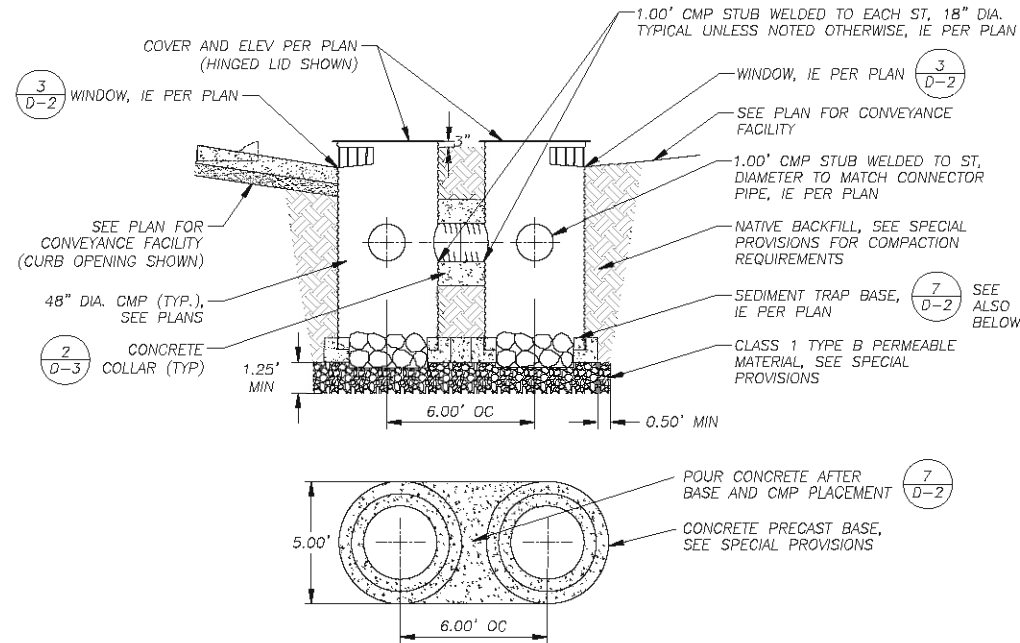
### SEDIMENT TRAP 2

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### SEDIMENT TRAP WINDOW 3

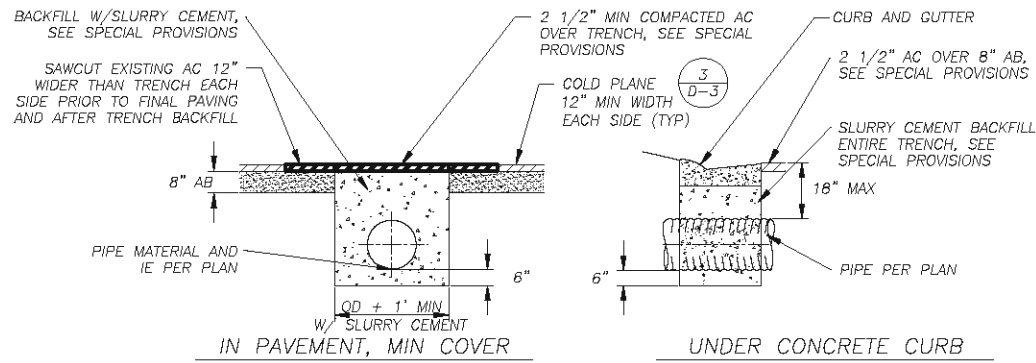
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- NOTES:
1. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
  2. SEE SPECIFICATIONS FOR CONCRETE MATERIAL.

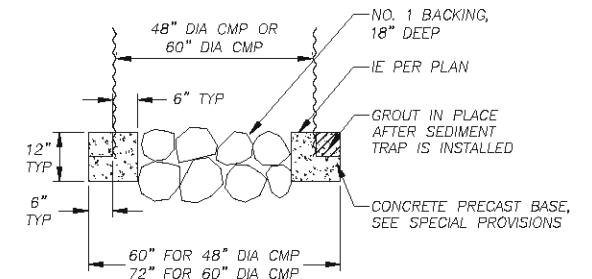
### DOUBLE SEDIMENT TRAP 4

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### ROCK BOWL W/ ST 6

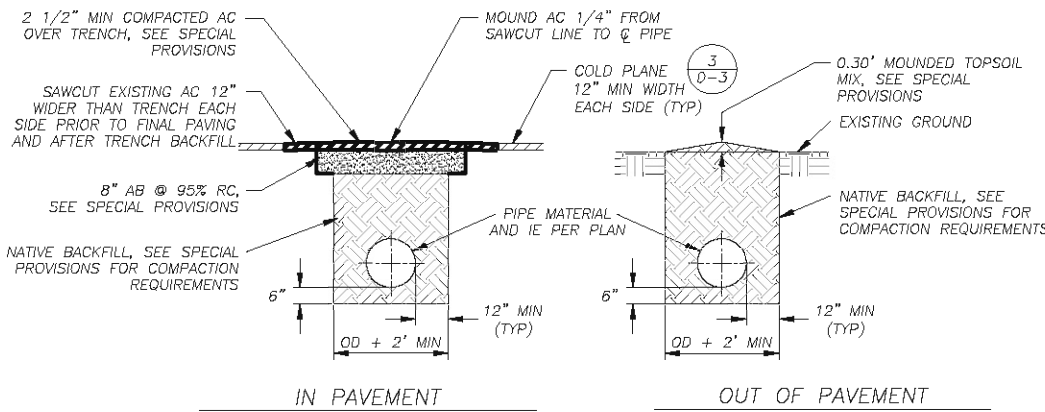
SCALE: N.T.S.



- NOTES:
1. SEE SPECIAL PROVISIONS FOR CONCRETE SPECIFICATIONS.
  2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.

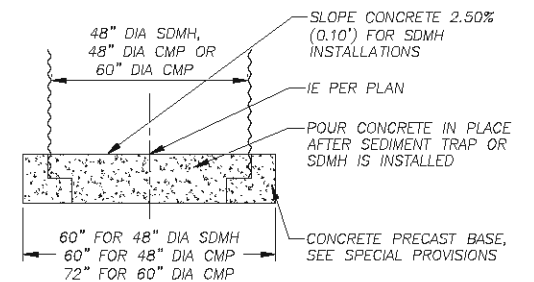
### ST BASES 7

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### PIPE TRENCH 5

SCALE: N.T.S.



#### REVISIONS

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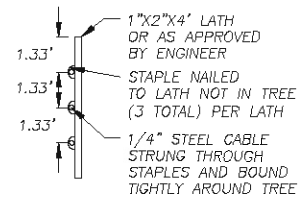


## MIDDLE ROSEWOOD CREEK SEZ RESTORATION 50% DESIGN PLANS DETAILS SHEETS

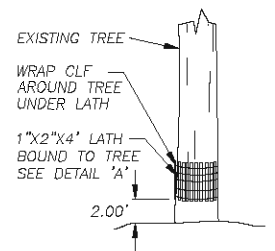
Sheet  
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DATE  
April,  
2007





DETAIL 'A'

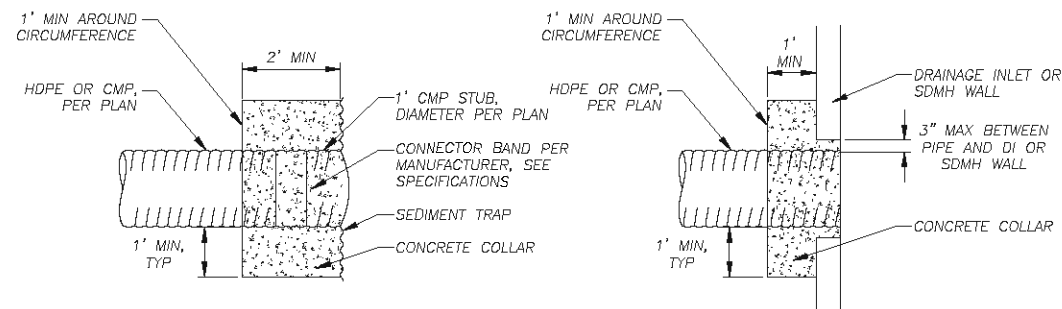


NOT AT DRIPLINE

NOTE: DETAIL SHOWN IS FOR TREE PROTECTION FENCE, MATERIAL AND SPACING SHOWN ALSO APPLY TO CONSTRUCTION LIMIT FENCE. CLF & TREE PROTECTION FENCE SHALL BE 48" HIGH MINIMUM. FOR TREES WITH DRIPLINES THAT OVERHANG THE CONSTRUCTION AREAS, THE LOCATION OF THE TREE PROTECTION FENCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND/OR TRPA AT PREGRADE MEETING.

## TYPICAL TREE PROTECTION AND CONSTRUCTION LIMIT FENCE (CLF)

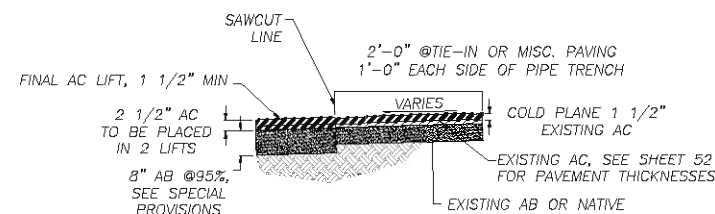
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NOTE: SEE SPECIAL PROVISIONS FOR CONCRETE SPECIFICATIONS.

## CONCRETE COLLAR

SCALE: N.T.S.



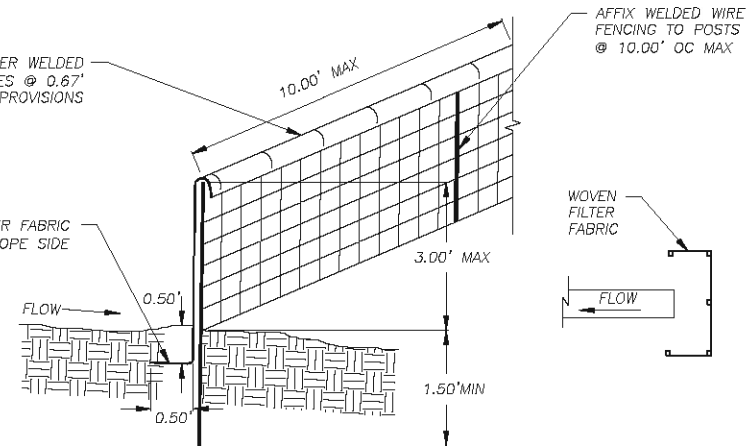
NOTES: 1. THE FINAL AC LIFT SHALL BE CONTINUOUS FROM COLD PLANE LIMITS, OVER SAWCUT LINE, TO GUTTER LIP, EDGE OF PAVEMENT, OR FOR PIPE TRENCH FROM COLD PLANE LIMIT TO COLD PLANE LIMIT, AS SHOWN ON THE PLANS.

## ASPHALT COLD PLANE

SCALE: N.T.S.

DRAPE WOVEN FILTER FABRIC OVER WELDED WIRE AND FASTEN WITH TIE WIRES @ 0.67' OC SEE SPECIAL PROVISIONS

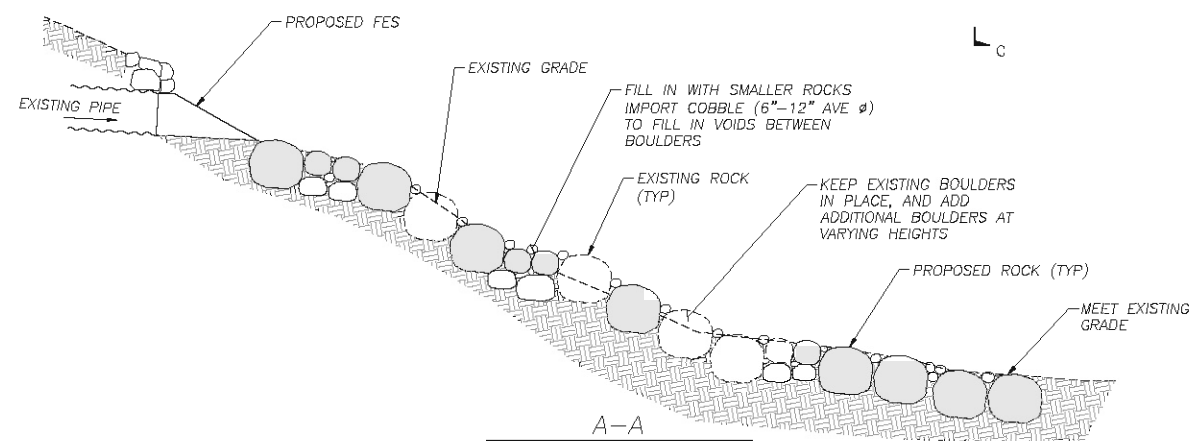
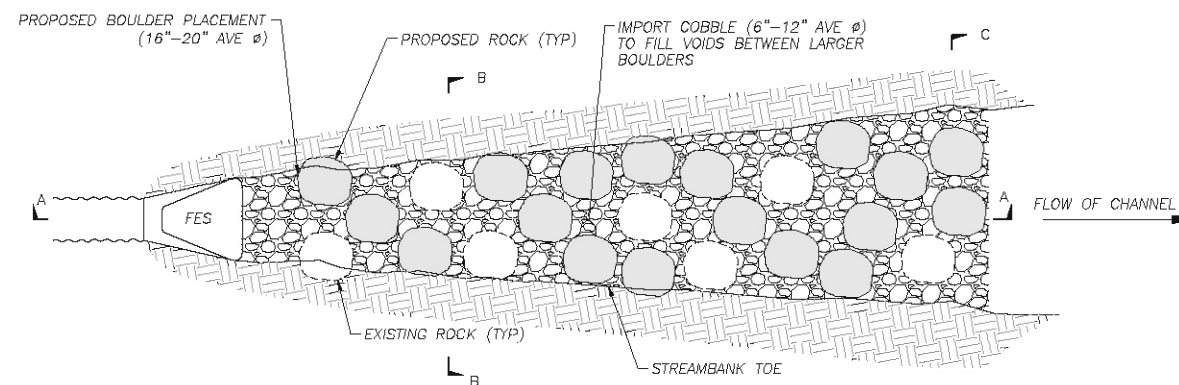
BURY TOE OF WOVEN FILTER FABRIC 0.50' IN TRENCH ON UPSLOPE SIDE



- NOTES: 1. CONTRACTOR MAY USE PRE MANUFACTURED SEDIMENT CONTROL FENCE AS APPROVED BY THE COUNTY. SEE SPECIAL PROVISIONS.
2. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE

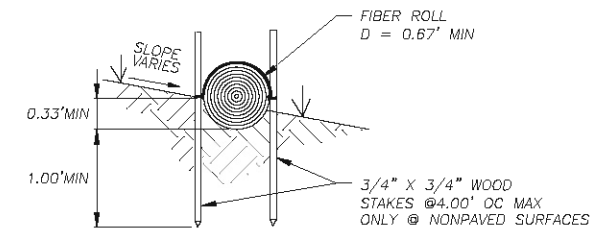
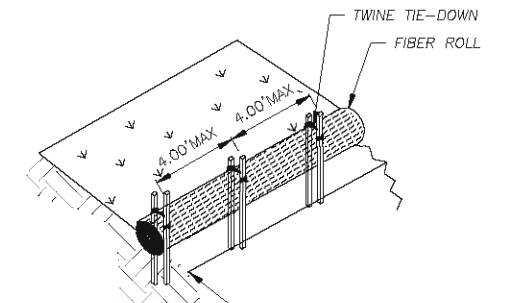
## TYPICAL FILTER FENCE TYPE 2

SCALE: N.T.S.



## ROCK CASCADE

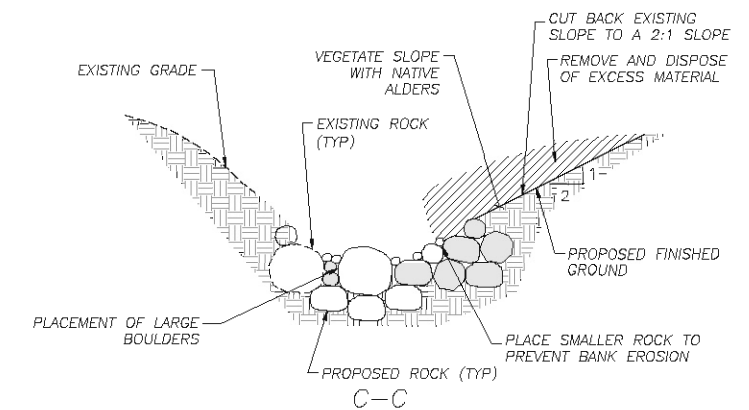
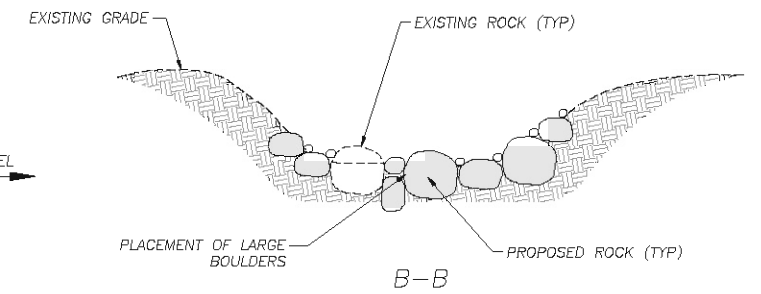
SCALE: N.T.S.



NOTE: 1. INSTALL FIBER ROLL ALONG LEVEL CONTOUR.

## TYPICAL FIBER ROLL INSTALLATION

SCALE: N.T.S.



## REVISIONS

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## MIDDLE ROSEWOOD CREEK SEZ RESTORATION

50% DESIGN PLANS  
DETAIL SHEETS

Sheet D-3

DATE April, 2007